MMMMMM P	MMM MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	000000000 000000000 0000000000 000 000 000 000
----------	--	--	--	--	--

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\$\$\$\$\$\$\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$	*** *** *** *** *** *** *** *** *** **	MM MM MMM MMM MMMM MMM MMM MM MM MM MM M		AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	BBBBBBBB BB BB BB BB BB BB BB BB BBBBBBB
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Page 1 (1)

.TITLE MACSSYMTAB

M 10

PERMANENT SYMBOL TABLE

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FACILITY:

VAX MACRO ASSEMBLER OBJECT LIBRARY

ABSTRACT:

The VAX-11 MACRO assembler translates MACRO-32 source code into object modules for input to the VAX-11 LINKER.

ENVIRONMENT: USER MODE

AUTHOR: Benn Schreiber, CREATION DATE: 20-AUG-78

MODIFIED BY:

V03-001 MTR0031 Mike Rhodes 13-Apr-1983 Add .LINK directive to the directives symbol list.

VO2.20 MTRO001 Mike Rhodes 09-Nov-1981
Add new symbol block for /DEBUG parameter symbols.
The functions are the same as combinations of the
/Enable and /Disable qualifers utilizing the DEBUG
and TRACEBACK parameters.

V02.19 PCG0009 Peter George 28-Aug-1981 Delete multiple CLRG definition.

V02.18 (NH0042 Chris Hume 28-Oct-1980 De-optimize boundary valued backward references if indexing requested. Allow the architecturally legal immediate mode in

PERMANENT	SYMBOL TABLE		N 10 16-SEP-1984 01:54:17 VAX/VMS Macro V04-00 Page 2 5-SEP-1984 01:49:57 [MACRO.SRC]SYMTAB.MAR;1 (1)
0000 0000 0000	58 : 59 : 60 :		address and vield contexts and also the practically useless indexed immediate mode. (ACTREF.MAR 02.15, ACTSTA.MAR 02.15, DEFINE.MAR 02.17)
0000	62	v01.17	RN0014 R. Newland 10-Oct-1979 Support for G_floating, H_floating and Octaword datatypes
0000	65	v01.16	RN0013 R. Newland 27-Sep-1979 Add VEC attribute name to PSECT options
0000	68	v01.15	RN0005 R. Newland 12-Aug-1979 Variable symbol name storage
0000	71 72	v01.13	RN0004 R. Newland 15-Mar-1979 Insert CLRG, MOVAG and PUSHAG into opcode definitions
0000 0000 0000	74 75 76	v01.14	RN0006 R. Newland 21-Aug-1979 Insert .REPEAT into table of directives treated specially within a macro body
0000 0000 0000	78 79 80	v01.12	RN0001 R. Newland 01-FEB-1979 Insert CVTDH and CVTGF into opcode definitions
0000 0000 0000 0000 0000 0000 0000 0000 0000	82 83 84 85 86 87	SMAC_GEI SMAC_SYI SMAC_CTI SMAC_GRI	NVALDEF BEFINE COMMONLY USED SYMBOLS BEFINE SYMBOL BLOCK OFFSETS LFLGDEF LFLGDEF CROSS REF FLAG BITS AMMARDEF DEFINE CROSS REF FLAG BITS AMMARDEF DEFINE VAX-11 MACRO TERMINAL GRAMMAR DEFINE ADDRESSING MODES
0000 0000 0000 0000	86 87 88 89	SMAC GRI SMAC GRI SMAC ADI SMAC OPI	FLAGDEF : DEFINE CROSS REF FLAG BITS AMMARDEF : DEFINE VAX-11 MACRO TERMINAL GRAMMAR RMODDEF : DEFINE ADDRESSING MODES RDEF : DEFINE OPERAND DESCRIPTOR BITS

MAC\$SYMTAB

: SEGMENT

VC

B 11

SEG

. ENDM

RELOCATE BACK TO END OF FREE STORAGE

:UPDATE LINKED LIST POINTER

(3)

VC

C 11

.=HASHPT

SS'HASHNM = .

.ENDM ENTERSYM

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VC

E 11 MACSSYMTAB V04-000 PERMANENT SYMBOL TABLE USER SYMBOL HASH TABLE 16-SEP-1984 01:54:17 VAX/VMS Macro V04-00 5-SEP-1984 01:49:57 [MACRO.SRC]SYMTAB.MAR;1 Page .SBTTL USER SYMBOL HASH TABLE THE USER SYMBOL TABLE CONSISTS OF ALL SYMBOLS (EXCEPT MACRO NAMES)
DEFINED BY THE USER. THE CODE BELOW INITIALIZES THIS TABLE TO BE
EMPTY. (IE. EACH OF THE HASH TABLE ENTRIES ARE ZEROED.) 00000000 .PSECT MACSUSERHASHTAB, NOEXE, LONG MACSAL_USYHSHTB:: START OF USER HASH TABLE 00000200 .BLKL HASHSZ+1 : ALLOCATE HASH TABLE

M

F 11 MACSSYMTAB V04-000 PERMANENT SYMBOL TABLE MACRO NAME HASH TABLE 16-SEP-1984 01:54:17 VAX/VMS Macro V04-00 5-SEP-1984 01:49:57 [MACRO.SRC]SYMTAB.MAR;1 (6) Page .SBTTL MACRO NAME HASH TABLE THE MACRO NAME TABLE CONTAINS THE NAMES OF ALL MACROS DEFINED BY
THE USER. THE CODE BELOW INITIALIZES THIS TABLE TO BE EMPTY.

PSECT MACSUSRMACROHSH, NOEXE, LONG

MACSAL_UMCHSHTB:: ;START OF MACRO NAME HASH T

BLKL HASHSZ+1 :ALLOCATE HASH TABLE 00000000 START OF MACRO NAME HASH TABLE 00000200

M/V

V

00A0 00A0

OOAD OOAD

OOBC

OOBC

8000

00D6 0006

0100

0100

010E

301

<<PSC\$M_NOSHR&MSK_RH>+<<<PSC\$M_NOSHR\SIGN_BIT>@SHF_LH>&MSK_LH>>

: READABLE

WORD ALIGNMENT

LONGWORD ALIGNMENT

SMAC_INSERT_SYX_NORD.- ;NOT READABLE <<PSC\$M_NORD&MSK_RH>+<<<PSC\$M_NORD\SIGN_BIT>@SHF_LH>&MSK_LH>> ;NOT READABLE ;NOT READABLE

\$MAC_INSERT_SYX_NOWRT.-<<PSC\$M_NOWRT&MSK_RH>+<<<PSC\$M_NOWRT\SIGN_BIT>@SHF_LH>&MSK_LH>> .RYTE_ALIGNMENT

SMAC_INSERT_SYX_RD.-<<PSC\$M_RD&MSK_RH>+<PSC\$M_RD@SHF_LH>>

\$MAC_INSERT_SYX_LONG.- ;LONGWORD <<PSC\$M_LONG&MSK_RH>+<PSC\$M_LONG&SHF_LH>>

MAC\$SYMTAB	PERMANENT SYMBOL TABLE PSECT OPTION TABLE	
	011C 315 011C 316 012A 317 012A 318 0138 319 0138 320 0145 321 0145 322 0145 323	SMAC_INSERT_SYX QUAD <pre></pre>

M

Page

(9)

V

SYMBOLS

00000000

00E8 00E8 00E8 00E8 00F5 0119 012A 013D

014B

INSYMP = 0

SYMBOLS

SMAC_INSERT_SYX ALL,—

CRF\$M_DIR!CRF\$M_MACROS!CRF\$M_OPCODES!CRF\$M_REGISTERS!CRF\$M_SYMBOLS ;ALL OF THEM
\$MAC_INSERT_SYX DIRECTIVES,CRF\$M_DIR ;DIRECTIVES
\$MAC_INSERT_SYX MACROS,CRF\$M_MACROS ;MACROS
\$MAC_INSERT_SYX OPCODES,CRF\$M_OPCODES ;OPCODES
\$MAC_INSERT_SYX REGISTERS,CRF\$M_REGISTERS ;REGISTERS
\$MAC_INSERT_SYX REGISTERS,CRF\$M_MACROS!CRF\$M_SYMBOLS ;/CROSS W/NO VALUES
\$MAC_INSERT_SYX SYMBOLS,CRF\$M_SYMBOLS,MAC\$CRF_OPTIONS ;SYMBOLS

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401 403 405

411

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FFFFFFF 00000000

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.SBTTL LIST/NLIST OPTION TABLE .PSECT MACSENBDSABLTAB, NOEXE, LONG ENABLE = -1 DISABLE = 0

LISTING CONTROL DIRECTIVES. THE VALUE IS THE INITIAL SWITCH SETTING

THE SYMSB TOKEN FIELD IS USED INTERNALLY TO STORE THE INITIAL SETTING OF EACH OPTION (TRUE OF ENABLE OPTIONS ALSO). THESE ARE SET UP IN PASS 1 AND THE SYMSL VAL FIELD IS RESET FROM THE NOTE: TOKEN FIELD AT THE BEGINNING OF PASS 2.

INSYMP = 0

\$MAC_INSERT_SYM CND, ENABLE, 1, LST\$G_CONDITION; Conditional code

\$MAC_INSERT_SYM MD, ENABLE, 2, LST\$G_MACRODEF; Macro defintions

\$MAC_INSERT_SYM MC, ENABLE, 4, LST\$G_MACROCALL; Macro calls

\$MAC_INSERT_SYM ME, DISABLE,8, LST\$G_MACROXPAN; Macro expansions

\$MAC_INSERT_SYM MEB, DISABLE, 16, LST\$G_MACROBIN ; Macro binary code

LST\$G_DIRLIST == LST\$G_MACROBIN START OF TABLE

LONG FORMS OF THE LISTING CONTROL DIRECTIVES. THE VALUE CONTAINED IS A POINTER TO ONE OF THE ABOVE NAME BLOCKS.

INSYMP = 0

\$MAC_INSERT_SYX NONE,

0

LST\$G_CONDITION ; CONDITIONAL CODE LST\$G_MACRODEF ; MACRO DEFINITIONS LST\$G_MACROCALL ; MACRO CALLS LST\$G_MACROXPAN ; MACRO EXPANSIONS LST\$G_MACROBIN,-; Macro expansions

SPECIAL FOR /SHOW

WITH NO VALUE

416 419 420 SMAC_INSERT_SYX CONDITIONALS,
SMAC_INSERT_SYX DEFINITIONS,
SMAC_INSERT_SYX CALLS,
SMAC_INSERT_SYX EXPANSIONS,
SMAC_INSERT_SYX BINARY,

LST\$G_LONGNAMES

(11)

MAC\$SYMTAB	PERMANENT ENABLE/DI	SYMBOL TABLE SABLE OPTIONS	M 11	16-SEP-1984 0 5-SEP-1984 0	1:54:17	VAX/VMS Macro V04-00 [MACRO.SRC]SYMTAB.MAR;1	Page 14
	00BE 00BE	423 424	.SBTTL ENABLE/	ISABLE OPTIONS			
	008E 008E 008E 008E 008E 008E 008E	425 426 : ENABL 427 :	E/DISABLE OPTIONS	. VALUE IS IN	ITIAL SE	TTING.	
	00000000 0086	429	INSYMP = 0				
	008E 008E	431 432	SMAC_INSERT_SYM	AMA, DISABLE, ENB\$G_ABSADDR	256,-	; Absolute addressing	
	00CF 00CF	434	SMAC_INSERT_SYM	FPT, DISABLE, ENB\$G_FLPTRUNC	512,-	; Floating point trunca	tion
	00E0 00E0	435 436 437 438 439	\$MAC_INSERT_SYM	LSB, DISABLE, ENB\$G_LOCALSYM	B 0,-	; Local symbol block	
	00F1 00F1	440 441 442 :	SMAC_INSERT_SYM	DBG, DISABLE, ENB\$G_DEBUG	2048,-	; Debugger symbol genera	ation
	0102 0102	443 444 445 ;	SMAC_INSERT_SYM	GBL, ENABLE, ENB\$G_GLOBAL	4096,-	; Undefined to external:	s
	0113 0113	446	\$MAC_INSERT_SYM	TBK, ENABLE, ENBSG_TRACEBAC	8192,-	; Traceback/debug info	output
	0124 0124	448 : 449 450	\$MAC_INSERT_SYM	SUP, DISABLE, ENB\$G_SUPPRESS	16384,	- ; Suppress of unreferen	ced symbols
	00000128 0135	452 ENB\$G_0	PTIONS ==	ENB\$G_SUPPRESS		START OF TABLE	
	0135 0135 0135 0135	454 : LONG	FORMS OF THE ENAB POINTER TO ONE OF				
	00000000 0135	455 : IS A 456 : 457	INSYMP =	0			
	0135 0135 0143	459 460	SMAC_INSERT_SYX	NONE,	0	SPECIAL FOR GET	NABLE
	0143 0143 0155	462 463	SMAC_INSERT_SYX SMAC_INSERT_SYX	ABSOLUTE, TRUNCATION,	ENB\$G	ABSADDR ABSOLUTE ADDREST FLPTRUNC FLOATING POINT	SSING TRUNCATION
	0169 017E	465	SMAC_INSERT_SYX	DEBUG,	ENB\$G	LOCALSYMB : LOCAL SYMBOL BUDEBUG : DEBUGGER SYMBOL	GENERAT 10
	0180 0185 0185	458 459 461 462 463 464 465 466 467 468 470	SMACTINSERT SYX SMACTINSERT SYX SMACTINSERT SYX SMACTINSERT SYX SMACTINSERT SYX SMACTINSERT SYX	SUPPRESSION, GLOBAL, ENB\$G_LONGNAME	ENB\$G_ ENB\$G_	TRACEBACK ; DEBUG/TRACEBAC SUPPRESS ; SUPPRESS UNREFE GLOBAL, - ; Undefined glob	RENCED SYM
	01C5 01C5	471 :	FORMS OF THE DEDI			CONTAINED IS AN INDEX LISER	
	01C5 01C5 01C5	473 : TO SE 474 : SPECT 475 : BITS	LECTIVELY SET AND FIED IN THE ENABL IN MACSGL_ENLISF	OOR CLEAR COMB E/DISABLE OPTION ARE ALSO SET/C	INATIONS ONS TABLE LEARED A	CONTAINED IS AN INDEX USED OF THE DEBUG/TRACEBACK FLE ABOVE. THE CORRESPONDING REQUIRED.	AGS
	01C5 01C5 00000000 01C5	475 : BITS 476 : 477 478 479	INSYMP =	0			

MACSSYMTAB

M/V

.ENDR . ENDM

OPDEF

```
16-SEP-1984 01:54:17 VAX/VMS Macro V04-00
5-SEP-1984 01:49:57 [MACRO.SRC]SYMTAB.MAR;1
```

Page 17 (14)

```
.SBTTL OPCODE DEFINITIONS
                                 OPCODE DEFINITIONS
      THE FOLLOWING MACRO IS USED TO DEFINE THE STAR OPCODE SET. THE CALLING FORMAT IS:
                    OPDEF
                                 NAME, OPCODE, <ARG1, ARG2....>
      WHERE 'NAME' IS THE NAME OF THE MACHINE INSTRUCTION, 'OPCODE' IS THE VALUE OF THE OPCODE (POSSIBLY 2 BYTES), AND 'ARG(N)' ARE THE N'TH OPERAND DESCRIPTORS. 'ARG(N)' CONSISTS OF ONE BYTE WITH THE LOWER 4 BITS CONTAINING THE WIDTH (IN BYTES) OF THE OPERAND, AND THE UPPER 4 BYTS CONTAINING FLAGS DESCRIBING THE OPERAND TYPE.;
                    .MACRO OPDEF NME, CODE, ARGS ; NAME, OPCODE, <MODE1, ARG1,...>
                    $COUNT = 0
                                                                          FIRST COUNT THE OPERANDS
                    .IRP X, <ARGS>
$COUNT = $COUNT + 1
.ENDM
                                 NME, DOPCODE, CODE, \$COUNT
                    . IRP
                                 X, <ARGS>
                                                                         :FILL IN OPERAND DESCRIPTORS
                    . WORD X
```

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(15)

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D 12
      PERMANENT SYMBOL TABLE OPCODE DEFINITIONS
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02
                                                                                          TABLE OF ILLEGAL ADDRESSING MODES
A BIT IS SET FOR EACH ILLEGAL MODE FOR EACH OPERAND ACCESS TYPE
                                                                                                                                                                             MACRO ILL_MOD ARG1
                                                                                                                                                                        IRP DARG, <ARG1>
IF NB DARG
Z=Z+<1a<ADM$_'DARG>>
.ENDC
.ENDR
                                                                                                                                                                                . WORD
                                                                                                                                                                                                                                    Z
                                                                                                                                                                                .ENDM
                                                                                                                                                                                .PSECT MACSPRMSYMTAB, GBL, NOEXE, NOWRT, LONG
                                                                                                                    MACSAW_ILLMODTB::
                                                                                                                                                                             ILL MOD <LITERAL, REGISTER>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     : ADDRESS
0000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     : READ
                                                                                                                                                                          ILL_MOD <LITERAL, IMMEDIATE> ;MODIFY
ILL_MOD <LITERAL, IMMEDIATE> ;WRITE
ILL_MOD <LITERAL> ;FIELD
ILL_MOD <LITERAL, IMMEDIATE, ABSOLUTE, PIC, - ;BRANCH BYTE
INDEX, REGISTER, RRIND, REGAUTODEC, -
REGAUTOINC, DFRAUTOINC, DFBYTEDISP, -
DFWORDDISP, DFLONGDISP>
ILL_MOD <LITERAL, IMMEDIATE, ABSOLUTE, PIC, - ;BRANCH WORD
INDEX, REGISTER, RRIND, REGAUTODEC, -
                                                                                                                                                                                                                                     INDEX, REGISTER, RRIND, REGAUTODEC, - REGAUTOINC, DERAUTOINC, DEBYTEDISP, -
                                                                                                                                                                                                                                    DFWORDDISP, DFLONGDISP>
```

MAC\$SYMTAB

0401

04DC

OPDEF

OPDEF

OPDEF

OPDEF

OPDEF

OPDEF

SUBP4

SUBP6

CVTPT

MULP

CVTTP

SUBP

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PERMANENT SYMBOL TABLE OPCODE DEFINITIONS

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16-SEP-1984 01:54:17 VAX/VMS Macro V04-00 5-SEP-1984 01:49:57 [MACRO.SRC]SYMTAB.MAR;1

Page 20 (16)

637 OPDEF DIVP

<<<^x27>>>

<RW

AB

AB

AB>

RW

PERMANENT SYMBOL TABLE OPCODE DEFINITIONS	G 12	16-SEP-1984 5-SEP-1984	01:54:17 01:49:57	VAX/VM: EMACRO	S Macro .SRC]SYM	V04-00 TAB.MAR;1	Page 21 (17)
058B 639 OPDEF MOVC3 05A4 640 OPDEF MOVC3 05BC 641 OPDEF CMPC3 05D5 642 OPDEF CMPC 05ED 643 OPDEF SCANC 0608 644 OPDEF SPANC 0623 645 OPDEF MOVC5 0640 646 OPDEF CMPC5 065D 647 OPDEF MOVTC 067C 648 OPDEF MOVTC 069C 649 069C 650 OPDEF BSBW 06BO 651 OPDEF BRW 06C3 652 ;; OPDEF BR 06C3 653 OPDEF CVTWL 06DA 654 OPDEF CVTWL	<<<^x28> <<<^x29> <<<^x29> <<<^x29> <<<^x28> <<<^x28> <<<^x28> <<<^x28> <<<^x28> <<<^x20> << <xx20> <<<xx20></xx20></xx20>	>>	AB AB AB AB AB AB AB	AB> AB> AB> AB AB RB RB RB	RB> RB> RW RW AB	AB> AB> RW RW	AB> AB>
069C 650 OPDEF BSBW 06B0 651 OPDEF BRW 06C3 652 ::OPDEF BR 06C3 653 OPDEF CVTWL 06DA 654 OPDEF CVTWB 06F1 655 OPDEF MOVP 0709 656 OPDEF CMPP3 0722 657 OPDEF CMPP 073A 658 OPDEF CVTPL 0753 659 OPDEF CMPP4	<<<^x33> <<<^x34> <<<^x35> <<<^x35> <<<^x35>	>>	WL> WB> AB AB AB AB AB	AB> AB> AB> WL> RW	AB>		
06DA 654 OPDEF CVTWB 06F1 655 OPDEF MOVP 0709 656 OPDEF CMPP3 0722 657 OPDEF CMPP 073A 658 OPDEF CVTPL 0753 659 OPDEF CMPP4 076E 660 076E 661 OPDEF EDITP 078A 662 OPDEF MATCH 07A6 663 OPDEF LOCC 07BE 664 OPDEF SKPC 07D6 665 OPDEF MOVZW 07EE 666 OPDEF ACBW 0808 667 OPDEF MOVAW 081F 668 OPDEF MOVAW 081F 668 OPDEF PUSHA 0835 669 0835 670 0835 671 OPDEF ADDF3 084C 672 OPDEF ADDF3 0862 673 OPDEF SUBF2 0892 675 OPDEF SUBF2 0892 675 OPDEF SUBF3 08C1 677 OPDEF MULF2	C <<<^x39> <<<^x38> <<<^x38> L <<<^x30> <<<^x30> <<<^x35>	>> <rw >> <aw< td=""><td>AB RW RW WL> RW WL></td><td>AB RW AB> AB></td><td>AB> AB></td><td></td><td></td></aw<></rw 	AB RW RW WL> RW WL>	AB RW AB> AB>	AB> AB>		
0835 670 0835 671 OPDEF ADDF2 084C 672 OPDEF ADDF3 0862 673 OPDEF ADDF3 087B 674 OPDEF SUBF2 0892 675 OPDEF SUBF3 0801 677 OPDEF MULF2 0808 678 OPDEF MULF2 0808 678 OPDEF MULF3 0907 680 OPDEF DIVF2 091E 681 OPDEF DIVF2 091E 681 OPDEF DIVF3 094D 683 094D 683 094D 684 OPDEF CVTFB	<<<^x40> <<<^x41> <<<^x42> <<<^x42> <<<^x43> <<<^x44> <<<^x44> <<<^x44> <<<^x44> <<<^x44> << <xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx< td=""><td>>> <rf< td=""> >> <rf< td=""></rf<></rf<></rf<></rf<></rf<></rf<></rf<></rf<></rf<></td><td>MF> MF> RF MF> MF> MF> MF> MF> RF</td><td>WF> WF> WF></td><td></td><td></td><td></td></xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx<>	>> <rf< td=""> >> <rf< td=""></rf<></rf<></rf<></rf<></rf<></rf<></rf<></rf<></rf<>	MF> MF> RF MF> MF> MF> MF> MF> RF	WF> WF> WF>			
094D 683 094D 684 OPDEF CVTFB 0964 685 OPDEF CVTFW 097B 686 OPDEF CVTFL 0992 687 OPDEF CVTRF 09AA 688 OPDEF CVTBF 09C1 689 OPDEF CVTWF 09D8 690 OPDEF CVTLF 09EF 691 OPDEF ACBF	<<<^X49> <<<^X4A> L <<<^X4B> <<<^X4C>	>>	WB> WW> WL> WL> WF> WF> RF	MF	BW>		

MAC\$SYMTAB

CVTDF

RESERVED 77

<<<^x76>>>

WF>

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OD9C

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ICP

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MAC\$SYMTAB V04-000	PERMANENT SYMBOL TABLE OPCODE DEFINITIONS	I 12	16-SEP-1984 5-SEP-1984	01:54:17 01:49:57	VAX/VM:	S Macro V04-00 .SRCJSYMTAB.MAR;1	Page	(19
	ODCC 744 OPDEF E ODE6 745 OPDEF E OE00 746 OPDEF C OE14 747 OPDEF C OE28 748 OPDEF C OE3C 749 OPDEF M OE52 750 OPDEF M OE69 751 OPDEF M OE80 752 OPDEF M OE97 753 OPDEF M OE97 753 OPDEF P	SHL	<pre></pre>	RL RQ RL RQ WL>	WL> WQ> RL WL	WQ> WL>		
	0ED9 756 0ED9 757 OPDEF A 0EF0 758 OPDEF A 0F06 759 OPDEF A 0F1F 760 OPDEF S 0F36 761 OPDEF S 0F4C 762 OPDEF S 0F65 763 OPDEF M 0F7C 764 OPDEF M 0F92 765 OPDEF M 0F92 765 OPDEF M 0FAB 766 OPDEF D 0FC2 767 OPDEF D	NDDB2		MB> MB> RB MB> RB MB> MB> MB> MB>	WB> WB>			
	0FF1 770 OPDEF B 1008 771 OPDEF B 101E 772 OPDEF B 1037 773 OPDEF B 104E 774 OPDEF B 1064 775 OPDEF B 107D 776 OPDEF X 1094 777 OPDEF X 100A 778 OPDEF X 100C3 779 OPDEF M	IISB2 <<<^x88>> IISB2 <<<^x88>> IISB3 << <x88>> IISB3 <<<x88>> IISB3 <<x88>> IISB3 <<<x88>> IISB3 <</x88>> IISB3 < IISB3 <<td></td><td>RB MB> RB MB> MB> RB MB> RB MB> RB WB> RB</td><td>WB> WB> WB> RB></td><td></td><td></td><td></td></x88></x88></x88></x88></x88></x88></x88></x88></x88></x88></x88></x88></x88></x88></x88></x88></x88></x88></x88></x88></x88></x88></x88></x88></x88>		RB MB> RB MB> MB> RB MB> RB MB> RB WB> RB	WB> WB> WB> RB>			
	1109 783 OPDEF C 111F 784 OPDEF M 1136 785 OPDEF B 114C 786 OPDEF C 1160 787 OPDEF T 1174 788 OPDEF I	NOVB <<<^X90>> IMPB <<<^X91>> ICOMB <<<^X92>> ITB <<<^X93>> ILRB <<<^X94>> ISTB <<<^X96>> INCB <<<^X96>> IECB <<<^X97>>	> <rb > <rb > <rb > <rb > <rb< td=""><td>WB> RB> WB> RB></td><td></td><td></td><td></td><td></td></rb<></rb </rb </rb </rb 	WB> RB> WB> RB>				
	11FA 795 OPDEF R 1212 796 OPDEF A 122C 797 OPDEF M	VTBL		WL> WW> WL> RL RB WL>	RL> MB	BW>		

MAC\$SYMTAB V04-000	PERMANENT SYMBOL TABLE OPCODE DEFINITIONS		J 12	16-SEP-1984 5-SEP-1984	01:54:17 01:49:57	VAX/VMS Macro V04-00 [MACRO.SRC]SYMTAB.MAR;1	Page 2
	1259 800 OPDEF 1270 801 OPDEF 1286 802 OPDEF 129F 803 OPDEF 1286 804 OPDEF 12E5 806 OPDEF 12FC 807 OPDEF 1312 808 OPDEF 1312 810 OPDEF 1342 810 OPDEF 1358 811 OPDEF 1358 811 OPDEF 1371 812 1371 812 1371 813 OPDEF 1388 814 OPDEF 1388 814 OPDEF 1388 815 OPDEF 1387 816 OPDEF 1388 819 OPDEF 13FD 819 OPDEF 1414 820 OPDEF 1414 820 OPDEF 1414 820 OPDEF 1414 821 OPDEF 1414 822 OPDEF	ADDW2 ADDW3 SUBW2	<<<^XA0>> <<<^XA0>> <<<^XA1>> <<<^XA2>>	> /PU	MW> MW> RW MW>	ww>	
	1286 804 OPDEF 12CC 805 OPDEF 12E5 806 OPDEF	SUBW SUBW3 MULW2	<<<^XA1>> <<<^XA2>> <<<^XA2>> <<<^XA2>> <<<^XA3>> <<<^XA4>> <<<^XA4>> <<< <xa4>> <<<xa4>> <<<xa4>> <<<xa5>> <<xa5>> <<xa5>> <<xa5>> <<xa5>> <<xa5>> <xa5>> <xa5> <xa5>> <xa5> <xa5>> <xa5>> <xa5>> <xa5>> <xa5>> <xa5> <xa5>> <xa5> <xa5< td=""><td>> <rw > <rw > <rw< td=""><td>MW> RW MW></td><td>WW></td><td></td></rw<></rw </rw </td></xa5<></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa5></xa4></xa4></xa4>	> <rw > <rw > <rw< td=""><td>MW> RW MW></td><td>WW></td><td></td></rw<></rw </rw 	MW> RW MW>	WW>	
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	145A 823 OPDEF 1473 824	CASEW	<<<^XAF>>	> <rw< td=""><td>RW</td><td>RW></td><td></td></rw<>	RW	RW>	
	1489 826 OPDEF 149F 827 OPDEF 1486 828 OPDEF 14CC 829 OPDEF 14EO 830 OPDEF 14F4 831 OPDEF	MOVW CMPW MCOMW BITW CLRW TSTW INCW DECW	<<<^XB0>> <<<^XB1>> <<<^XB2>> <<<^XB3>> <<<^XB4>> <<<^XB4>> <<<^XB5>> <<<^XB6>> <<<^XB7>>	> <rw< p=""> > <rw< p=""> > <rw< p=""> > RW > MW</rw<></rw<></rw<>	WW> RW> WW> RW>		
	1508 832 OPDEF 151C 833 151C 834 OPDEF 1532 835 OPDEF 1548 836 OPDEF 155C 837 OPDEF 1571 838 OPDEF 1585 839 OPDEF 1585 839 OPDEF 1599 840 OPDEF 1501 842 1501 842 1501 843 OPDEF 1508 844 OPDEF 1508 844 OPDEF 1607 846 OPDEF 161E 847 OPDEF 1634 848 OPDEF 1640 849 OPDEF 1640 849 OPDEF 1664 850 OPDEF 1664 850 OPDEF 1664 850 OPDEF 1664 850 OPDEF	BISPSW BICPSW POPR PUSHR CHMK CHME CHMS CHMU	<<**XB8>> <<**XB9>> <<**XBA>> <<**XBB>> <<**XBC>> <<**XBC>> <<**XBC>> <<**XBE>> <<**XBE>> <<**XBE>>	> RW			
	15C1 842 15C1 843 OPDEF 15D8 844 OPDEF 15EE 845 OPDEF 16O7 846 OPDEF 161E 847 OPDEF 1634 848 OPDEF 164D 849 OPDEF	ADDL2 ADDL ADDL3 SUBL2	<<<^XCO>> <<<^XCO>> <<<^XCO>> <<<^XCO>> <<<^XCO>> <<<^XCO>> <<<^XCO>> <<<^XCO << <xoo <="" <<<xoo="" <<xoo="" td="" xo<="" xoo=""><td>></td><td>ML> ML> RL ML></td><td>WL></td><td></td></xoo>	>	ML> ML> RL ML>	WL>	
	161E 847 OPDEF 1634 848 OPDEF 164D 849 OPDEF	SUBL 3	<<<^XC2>> <<<^XC3>> <<<^XC4>>	>	ML> RL ML>	WL>	
	1664 850 OPDEF 167A 851 OPDEF 1693 852 OPDEF	MULL MULL3 DIVL2 DIVL DIVL3	<<<^XC5>>>	>	ML> RL ML>	WL>	
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MAC\$SYMTAB	PERMANENT SYMBOL TABLE OPCODE DEFINITIONS		K 12	6-SEP-1984 5-SEP-1984	01:54:17 01:49:57	VAX/VMS Macro V04-00 [MACRO.SRC]SYMTAB.MAR;1	Page 25 (21)
	16D9 856 OPDEF 16F0 857 OPDEF 1706 858 OPDEF 171F 859 OPDEF 1736 860 OPDEF 174C 861 OPDEF 1765 862 OPDEF 177C 863 OPDEF 177C 863 OPDEF 1792 864 OPDEF 17AB 865 OPDEF 17C2 866 OPDEF 17DB 867 17DB 868 OPDEF	BISL2 BISL3 BISL3 BICL2 BICL3 XORL2	<<<^XC8>>> <<<^XC8>>> <<<^XC8>>> <<<^XC9>>> <<<^XCA>>> <<<^XCA>>> <<<^XCA>>> <<<^XCA>>> <<<^XCA>>> <<<	<pre></pre>	ML> ML> RL ML> ML>	WL>	
	177C 863 OPDEF 1792 864 OPDEF 17AB 865 OPDEF 17C2 866 OPDEF	XORL3 MNEGL	<<<^XCC>>> <<<^XCD>>> <<<^XCE>>> <<<^XCE>>>	<rl <rl< td=""><td>ML> RL WL> RL</td><td>WL></td><td></td></rl<></rl 	ML> RL WL> RL	WL>	
	16D9 856 OPDEF 16F0 857 OPDEF 1706 858 OPDEF 171F 859 OPDEF 1736 860 OPDEF 174C 861 OPDEF 1765 862 OPDEF 177C 863 OPDEF 1792 864 OPDEF 1792 866 OPDEF 17DB 867 17DB 867 17DB 868 OPDEF 17F1 869 OPDEF 18D7 870 OPDEF 181E 871 OPDEF 181E 871 OPDEF 1834 872 OPDEF 1848 873 OPDEF 185C 874 OPDEF 185C 874 OPDEF 1870 875 OPDEF 1884 876 OPDEF 1898 877 1898 878 OPDEF 1898 879 OPDEF 1804 880 OPDEF	CMPL MCOML BITL CLRL CLRF TSTL INCL	<<<^XDD>>> <<<<^XDD>>> <<<<^XDD>>> <<<<^XDD>>> <<<<^XDD>>> <<<<^XDD>>> <<<<^XDD>>> <<<<^XDD>>> <<<	<rl <rl <rl WI WF RL ML</rl </rl </rl 	WL> RL> WL> RL>		
	18DA 881 OPDEF 18F0 882 OPDEF 1906 883 OPDEF 191B 884 OPDEF 192F 885 OPDEF 1946 886 OPDEF 195D 887 OPDEF 1973 888 OPDEF	SBWC MTPR MFPR MOVPSL PUSHL POPL MOVAL MOVAF PUSHAL	<<<^XD8>>> <<<^XD9>>> <<<^XD9>>> <<<^XDB>>> <<<^XDB>>> <<<^XDB>>> <<<^XDD>>> <<<^XDD>>> <<<^XDD>>> <<<^XDD>>> <<<^XDD>>> <<<^XDB>>> <<< <xdb>>>> <<<xdb>>>> >>> >>> >>> >> </xdb>>> </xdb> > >> <	<pre></pre>	ML> ML> RL> WL>		
	1989 889 1989 890 OPDEF 1987 892 OPDEF 1987 892 OPDEF 1967 893 OPDEF 1967 894 OPDEF 1967 895 OPDEF 1968 895 OPDEF 1968 896 OPDEF 1869 898 1869 898 1869 899 OPDEF	BBS BBC BBSS BBCS BBSC BBSSI BBCCI	<<<^XE0>>> <<<^XE1>>> <<<^XE2>>> <<<^XE2>>> <<<^XE3>>> <<<^XE3>>> <<<^XE3>>> <<<^XE4>>> <<<^XE6>>> <<<^XE6>>> <<<^XE6>>>> <<<^XE7>>>> <<< <xe7>>>> <<<\XE7>>>> <<\XE7>>>> >>> <>>>> </xe7> >> >>> >> >>> >>> >> >>> >> >>> >>> >> >> >>> >>> >>> <td><pre></pre></td> <td>VB VB VB VB VB VB VB</td> <td>BB> BB> BB> BB> BB> BB> BB></td> <td></td>	<pre></pre>	VB VB VB VB VB VB VB	BB> BB> BB> BB> BB> BB> BB>	
	1A49 898 1A49 899 OPDEF 1A5F 900 OPDEF 1A75 901 OPDEF 1A8E 902 OPDEF 1AA7 903 OPDEF 1AC1 904 OPDEF 1ADC 905 OPDEF 1AF6 906 OPDEF	BLBS BLBC FFS FFC CMPV CMPZV EXTV	<<<^XE8>>> <<<^XE9>>> <<<^XE8>>> <<<^XE8>>> <<<^XEB>>> <<<^XEB>>> <<<^XEB>>> <<< <xec>>> <<<xec>>> <<<xec>>>> <<xec>>>> <<xec>>>> <<xec>>>> <<xec>>>> <<xec>>>> <xec>>> <xec>> <xec>>> <xec>>> <xec>>> <xec>>> <xec>>> <xec>>> <xec>> <xec>>> <xec>>> <xec>>> <xec>>> <xec>>> <xec>>> <xec>>> <xec>>> <xec>>> <xec>> <xec>>> <xec>> <xec>>> <xec>>> <xec>> <xec>> <xec>>> <xec>> <xec>>> <xec>> <xec>> <xec>>> <xec>> <xec>> <xec>> <xec>> <xec>> <xec>> <xec>> <xec>> <</xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec></xec>	<pre></pre>	BB> BB> RB RB RB RB RB	VB WL> VB WL> VB RL> VB RL> VB WL> VB WL> VB WL>	

MAC\$SYMTAB V04-000	PERMANENT SYMBOL TABLE OPCODE DEFINITIONS		L 12 16-SE 5-SE	P-1984 01:54: P-1984 01:49:	17 VAX/VM 57 EMACRO	S Macro VO4-00 .SRCJSYMTAB.MA	Page 26 R;1 (22
	1811 908 OPDEF 1828 909 OPDEF 1845 910 OPDEF 185F 911 OPDEF 1879 912 OPDEF 1891 913 OPDEF 18A9 914 OPDEF 18CO 915 OPDEF 18D7 916	INSV ACBL AOBLSS AOBLEQ SOBGEQ SOBGTR CVTLB CVTLW	<<<^XF0>>> <<<^XF1>>> <<<^XF2>>> <<<^XF3>>> <<<^XF4>>> <<<^XF5>>> <<<^XF5>>> <<<^XF5>>> <<<<^XF7>>>> <<<	<rl <ml="" <rl="" bb="" ml="" rl=""> <ml bb=""> <rl wb=""> <rl wb=""></rl></rl></ml></rl>	RB ML BB> BB>	VB> BW>	
	18D7 917 OPDEF 18F5 918 OPDEF 1COE 919 OPDEF 1C25 920 OPDEF 1C3C 921 OPDEF 1C4D 922 OPDEF 1C5F 923 OPDEF 1C71 924 OPDEF	ASHP CVTLP CALLS CALLS XFC ESCD ESCE ESCF	<<<^XF8>>> <<<^XF9>>> <<<^XFA>>> <<<^XFB>>> <<<^XFB>>> <<<^XFD>>> <<<^XFD>>> <<<^XFD>>> <<<^XFD>>> <<<^XFE>>> << </td <td><rb <ab="" <rl="" ab="" rw=""> <rl ab=""> <rl ab=""> ; RESERVED ; RESERVED ; RESERVED ; RESERVED</rl></rl></rb></td> <td>AB AB></td> <td>RB RW</td> <td>AB></td>	<rb <ab="" <rl="" ab="" rw=""> <rl ab=""> <rl ab=""> ; RESERVED ; RESERVED ; RESERVED ; RESERVED</rl></rl></rb>	AB AB>	RB RW	AB>
	1 C83 925 OPDEF 1 C95 926 OPDEF 1 CA7 927 OPDEF 1 CBE 928 OPDEF 1 CD5 929 OPDEF 1 CEC 930 OPDEF 1 D05 931 OPDEF 1 D1C 932 OPDEF	BUGW BUGL CVTDH CVTGF ADDG2 ADDG3 SUBG2 SUBG3	<<^XFEFF>>> <<<^XFEFF>>> <<<^X32FD>>> <<<^X33FD>>> <<<^X40FD>>> <<<^X40FD>>> <<<^X41FD>>> <<<^X42FD>>> <<<^X42FD>>> <<<	<rd <rg="" mgx="" rg="" rg<="" td="" wfx="" whx=""><td>WG></td><td></td><td></td></rd>	WG>		
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	1E3C 944 OPDEF 1E55 945 OPDEF	DIVH2 DIVH3 CVTGB CVTGW CVTGL CVTRGL CVTBG CVTWG	<<^x464FD>>> <<<^x465FD>>> <<<^x466FD>>> <<<^x466FD>>> <<<^x46FD>>> <<<^x448FD>>> <<<^x449FD>>> <<<^x444FD>>> << <xx44fd>>> <<<xx44ffd>>> <<xx44ffd>>> <<xx44ffd>>> <<xx44ffd>>> <<xx44ffd>>> <xx44ffd>>> <xx44< td=""><td><rh <rg="" rh="" wb=""> <rg wl=""> <rg wl=""> <rg wl=""> <rb wg=""> <rw wg=""></rw></rb></rg></rg></rg></rh></td><td>WH></td><td></td><td></td></xx44<></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44ffd></xx44fd>	<rh <rg="" rh="" wb=""> <rg wl=""> <rg wl=""> <rg wl=""> <rb wg=""> <rw wg=""></rw></rb></rg></rg></rg></rh>	WH>		
	1F28 954 OPDEF 1F3F 955 OPDEF 1F56 956 OPDEF 1F6E 957 OPDEF	CVTLG ACBG CVTHB CVTHU CVTHL CVTRHL CVTBH	<<<^X69FD>>> <<<^X6AFD>>> <<<^X6BFD>>>	<rl wg=""> <rg <rh="" rg="" wb=""> <rh wu=""> <rh wl=""> <rh wl=""> <rh wl=""> <rh wl=""></rh></rh></rh></rh></rh></rg></rl>	MG	BW>	
	1F85 958 OPDEF 1F9C 959 OPDEF 1F83 960 OPDEF 1FCD 961 OPDEF 1FE3 962 OPDEF 1FF9 963 OPDEF 2010 964 OPDEF	CVTWH CVTLH ACBH MOVG CMPG MNEGG TSTG	<<^x\^X\6DFD>>> <<<^x\6EFD>>> <<<^x\6EFD>>> <<<^x\50FD>>> <<<^x\50FD>>> <<<^x\51FD>>> <<<^x\51FD>>> <<<^x\51FD>>> <<<^x\51FD>>> << <xx\51fd>>> <<<xx\51fd>>> <<<xx\51fd>>> <<<xx\51fd>>> <<<xx\51fd>>> <<xx\51fd>>> <<xx\51fd>>> <<xx\51fd>>> <<xx\51fd>>> <xx\51fd>>> <xx\51fd>>></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd></xx\51fd>	<rw <rg="" <rh="" <rl="" rgx="" rh="" td="" wgx="" wgx<="" whx=""><td>МН</td><td>BW></td><td></td></rw>	МН	BW>	

MV

MAC\$SYMTAB V04-000	PERMANENT ST OPCODE DEFI	YMBOL TABLE		M 12 16-SE 5-SE	P-1984 (P-1984 ()1:54:17)1:49:57	VAX/VMS EMACRO.	Macro V SRC]SYMT	04-00 AB.MAR;1	Page	(22)
	2024 2041 205A 2071 2087 2088 2006 2006 2015 2115 2133 2133 214 2190 2108 2108 21108 21108 21108 21162	965 OPDEF 966 OPDEF 967 OPDEF 968 OPDEF 969 OPDEF 970 OPDEF 971 OPDEF 972 OPDEF 973 OPDEF	EMODG POLYG CVTGH MOVH CMPH MNEGH TSTH	<<<^X54FD>>> <<<^X55FD>>> <<<^X56FD>>> <<<^X70FD>>> <<<^X70FD>>> <<<^X71FD>>> <<<^X72FD>>> <<<^X72FD>>> <<<^X73FD>>> <<<	<rg <rg <rh <rh <rh RH</rh </rh </rh </rg </rg 	RW RW WH> WH> RH>	RG AB>	WL	WG>		
	20C8 20E5 20FE 2115 2129	972 OPDEF 973 OPDEF 974 OPDEF 975 OPDEF 976 OPDEF 977 OPDEF	EMODH POLYH CVTHG CLRH CLRO	<<<^X74FD>>> <<<^X75FD>>> <<<^X76FD>>> <<<^X76FD>>> <<<^X7CFD>>>	<rh <rh <rh WH WO</rh </rh </rh 	RW RW WG>	RH AB>	WL	WH>		
	213D 2153 216A 2181 2197	978 OPDEF	MOVO MOVAH MOVAO PUSHAH PUSHAO	<< ^X7DFD>>> <<< ^X7EFD>>> <<< ^X7EFD>>> <<< ^X7EFD>>> <<< ^X7FFD>>> <<< ^X7FFD>>>	<r0 <ah <ao AH AO</ao </ah </r0 	WL>					
	21AD 21C4 21DB 21F2	980 OPDEF 981 OPDEF 982 OPDEF 983 OPDEF 984 OPDEF 985 OPDEF	CVTFH CVTFG CVTHF CVTHD	<<<^X98FD>>> <<<^X99FD>>> <<<^XF6FD>>> <<<^XF7FD>>>	<rf <rf <rh <rh< td=""><td>WH> WG> WF> WD></td><td></td><td></td><td></td><td></td><td></td></rh<></rh </rf </rf 	WH> WG> WF> WD>					

```
987 SBTTL DIRECTIVES
988 LISTED BELOW ARE
990 ...
991 ...
992 ...
993 SYM ADDRESS, K.
994 SYM ALIGN, KAL
995 SYM ASCIC, KAS
996 SYM ASCII, KAS
997 SYM ASCII, KAS
998 SYM ASCII, KAS
998 SYM ASCII, KAS
999 SYM BLKA, KBS
1000 SYM BLKA, KBS
1001 SYM BLKD, KBS
1002 SYM BLKG, KBS
1004 SYM BLKH, KBS
1005 SYM BLKH, KBS
1006 SYM BLKG, KBS
1006 SYM BLKG, KBS
1007 SYM BLKG, KBS
1008 SYM BLKG, KBS
1009 SYM BLKG, KBS
1010 SYM BLKG, KBS
1011 SYM BLKG, KBS
1012 SYM BLKG, KBS
1013 SYM BLKG, KBS
1014 SYM BLKG, KBS
1015 SYM BLKG, KBS
1016 SYM BLKG, KBS
1017 SYM BLKG, KBS
1018 SYM BLKG, KBS
1019 SYM BLKG, KBS
1019
                                                                                                                           LISTED BELOW ARE THE DIRECTIVES FOR THE MARS LANGUAGE.
                                                                                                                                                                                                                         .ADDRESS, KADDRESS
.ALIGN, KALIGN
.ASCIC, KASCIC
.ASCID, KASCID
.ASCII, KASCII
.ASCIZ, KASCIZ
.BLKA, KBLKA
.BLKB, KBLKB
                                                                                                                                                                                                                                                                                                                           KBLKD
KBLKF
                                                                                                                                                                                                                                                                                                                           KBLKG
                                                                                                                                                                                                                                                                                                                           KBLKH
                                                                                                                                                                                                                                                                                                                            KBLKL
                                                                                                                                                                                                                                                                                                                           KBLKO
                                                                                                                                                                                                                                .BLKQ, KBLKQ
.BLKW, KBLKW
.BYTE, KBYTE
.CROSS, KCROSS
                                                                                                                                                                                                                                 .DEBUG, KDEBUG
.DEFAULT, KDFLT
                                                                                                                                                                                                                           .DEFAULT, KDFLT
.DISABLE, KDSABL
.DOUBLE, KDOUBLE
.DSABL, KDSABL
.D FLOATING, KDOUBLE
.ENABL, KENABL
.ENABLE, KENABL
.ENABLE, KENABL
                                                                 1018 SYM
1019 SYM
1020 SYM
1021 SYM
1022 SYM
1023 SYM
1024 SYM
1025 SYM
1026 SYM
1027 SYM
1028 SYM
1030 SYM
1031 SYM
1031 SYM
1032 SYM
1033 SYM
1034 SYM
1035 SYM
1036 SYM
1037 SYM
1038 SYM
1037 SYM
1038 SYM
1039 SYM
1040 SYM
1041 SYM
1042 SYM
1043 SYM
                                                                                                                                                                                                                                .END.
                                                                                                                                                                                                                                                                                                                        KENDC
                                                                                                                                                                                                                                  .ENDM, KENDM
                                                                                                                                                                                                                               .ENDR, KENDR
.ENTRY, KENTRY
                                                                                                                                                                                                                      ENTRY, KENTRY
ERROR, KERROR
EVEN, KEVEN
EXTERNAL, KEXTRN
EXTRN, KEXTRN
FLOAT, KFLOAT
FIELD, KFIELD
FFLOATING, KFLOAT
GEOBAL, KGLOBL
GLOBL, KGLOBL
GFLOATING, KGFLOAT
HFLOATING, KHFLOAT
IDENT, KIDENT
IF, KIF
IFF, KIFF
IFF, KIFF
IFF, KIFF
IFT, KIFT
IFTRUE, KIFT
IFT, KIFT
IFTRUE, KIFT
IFTRUE, KIFT
IFTRUE, KIFT
IFTRUE, KIFT
IFTRUE, KIFT
                                                                                                                            SYM
```

PERMANENT SYMBOL TABLE DIRECTIVES

B 13

```
IRPC, KIRPC
IRP, KIRP
LIBRARY, KLIBRARY
LINK, KLINK
LIST, KLIST
LONG, KLONG
MACRO, KMACRO
MASK, KVECTOR
MDELETE, KMDELETE
MCALL, KMCALL
MEXIT, KMEXIT
NARG, KNARG
NCHR, KNCHR
NLIST, KNLIST
NOCROSS, KNCROS
NOSHOW, KNLIST
NTYPE, KNTYPE
OCTA, KOCTA
ODD, KODD
OPDEF, KOPDEF
PACKED, KPAGE
PRINT, KREF1
PSECT, KPSECT
QUAD, KQUAD
REF1, KREF1
REF2, KREF4
REF8, KREF8
REF16, KREF1
REF1, KREF1
RESTORE, KSAVE
SAVE, PSECT, KSAVE
SAVE, PSECT, KSAVE
SAVE, SAVE, KSAVE
SAVE, KSAVE
SAVE, KSAVE
SAVE, KSBTTL
SIGNED BYTE, KSGNB
SUBTITUE, KSBTTL
TITLE, KTITLE
TRANSFER, KXFER
WARN, KWEAK
WORD, KWORD
VECTOR, KVECTOR
                                                                                                                                                                                                                                                          10445 SYM
10446 SYM
10447 SYM
10448 SYM
10448 SYM
10512 SYM
10523 SYM
10557 SYM
10558 SYM
10558 SYM
10645 SYM
10648 SYM
10648 SYM
10648 SYM
10648 SYM
1077 S
.WORD, KWORD
.VECTOR, KVECTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         .END
```

P \$ M

M

PI

I CP SP SP

8

MAC\$SYMTAB Symbol table	PERMANENT SYMBOL TABLE	C 13	16-SEP-1984 01:54:17 5-SEP-1984 01:49:57	VAX/VMS Macro V04-00 [MACRO.SRC]SYMTAB.MAR;1	Page 30 (23
SCOUNT	01234567 \$1222234567 C\$\$112223456789 0123456789 01255123456789 012555555555555555555555555555555555555	= 00000007 = 00000002 = 000000002 = 000000003 = 000000005 = 000000005 = 000000005 = 0000000001 = 000000001 = 0000000001 = 0000000001 = 0000000001 = 000000000000000000000000000000000000	C\$57 C\$58 C\$59 C\$60 C\$61 C\$62 C\$645 C\$645 C\$656 C\$657 C\$67 C\$67 C\$67 C\$67 C\$67 C\$67 C\$67 C\$6	= 00000005 = 00000003 = 00000003 = 00000003 = 00000003 = 00000003 = 00000004 = 00000004 = 00000007 = 00000004 = 00000005 = 00000005 = 00000005 = 00000005 = 00000005 = 00000005 = 00000003 = 00000003 = 00000003 = 00000005 = 00000006 = 00000006	

M

M

1

T

M

MAC\$SYMTAB Symbol table	PERMANENT SYMBOL TABLE D 13	16-SEP-1984 01:54:17 VAX/VMS Macro V04-00 5-SEP-1984 01:49:57 [MACRO.SRCJSYMTAB.MAR;1	Page 31 (23)
CHR\$V_NOCVT = 0000007F CHR\$V_NUM_BER = 00000004 CHR\$V_SYM_CH1 = 00000003 CHR\$V_SYM_CH1 = 00000003 CHR\$V_SYM_CH1 = 00000001 CRF\$M_DEFAULT = 00000001 CRF\$M_DEFAULT = 00000001 CRF\$M_DEFAULT = 00000001 CRF\$M_OPCODES = 00000004 CRF\$M_REGISTERS = 000000004 CRF\$M_SYMBOLS = 00000001 CRF\$V_DIR = 00000001 CRF\$V_DIR = 000000001 CRF\$V_DIR = 000000001 CRF\$V_DEGES = 000000001 CRF\$V_DEGES = 000000001 CRF\$V_PREGISTERS = 000000003 CRF\$V_PREGISTERS = 000000003 CRF\$V_SYMBOLS = 00000001 DAND = 00000015 DAND = 00000015 DAND = 00000015 DAND = 00000015 DAT = 000000015 DAT = 00000000000000000000000000000000000	DXOR ENABLE ENB\$G_ABSADDR ENB\$G_DEBUG ENB\$G_FLPTRUNC ENB\$G_GLOBAL ENB\$G_LOCALSYMB ENB\$G_LOCALSYMB ENB\$G_LORNAMES ENB\$G_LORNAMES ENB\$G_LOPTIONS = 00000128 RG ENB\$G_SUPPRESS ENB\$G_TRACEBACK ERR01 = 00000001 ERR02 = 00000003 ERR04 = 00000003 ERR05 = 00000003 ERR06 = 00000003 ERR07 = 00000003 ERR07 = 00000003 ERR08 = 00000000 ERR08 = 000000000 FLG\$M_COMPEXPR = 00000000 FLG\$M_COMPEXPR = 00000000 FLG\$M_COMPEXPR = 00000000 FLG\$M_COMPEXPR = 00000000 FLG\$M_CRSEEN = 00000000 FLG\$M_DATRPT = 00000000 FLG\$M_DATRPT = 00000000 FLG\$M_DATRPT = 00000000 FLG\$M_DATRPT = 00000000 FLG\$M_EXPRES = 00000000 FLG\$M_EXTERR = 00000000 FLG\$M_EXTERR = 00000000 FLG\$M_IIF = 00000000 FLG\$M_MACLUB = 000000000 FLG\$M_MACLUB = 00000000 FLG\$M_MACLUB = 000000000 FLG\$M_MACLUB = 00000000 FLG\$M_MACLUB = 00000000 FLG\$M_MACLUB = 000000000 FLG\$M_MACLUB = 0000000000 FLG\$M_MACLUB = 000000000 FLG\$M_MACLUB = 000000000 FLG\$M_MACLUB = 000000000 FLG\$M_MACLUB = 000000000 FLG\$M_MACLUB = 0000000000 FLG\$M_MACLUB = 000000000 FLG\$M_MACLUB = 0	FLGSM OPRND	

MAC\$SYMTAB Symbol table	PERMANENT SYMBOL TABLE	E 13	16-SEP-1984 01:54:17 VAX/VMS Macro V04-00 Page (32
FLG\$V_SKAN	KGLOBL KHFLOAT KIDENT KIF KIFF KIFF KIFT KIFT KINCLUDE KIRP KIRPC KLIBRARY KLINK KLIST KLONG KMACRO KMACRO KMACRO KMACRO KMCALL KMDELETE KMEXIT KNCROS KNLIST KNCROS KNLIST KNTYPE KOCTA KODD KOPDEF KPACKED	= 00000046 = 00000048 = 00000049 = 00000047 = 00000046 = 00000046 = 00000046 = 00000056 = 00000051 = 00000054 = 00000054 = 00000054 = 00000054 = 00000054 = 00000054 = 00000054 = 00000054 = 00000054 = 00000056 = 00000065 = 00000065 = 00000065 = 00000066 = 0000066 = 000066 = 000066 = 000066	LST\$K_BUFSIZ = 00000036 LST\$K_TITE_SIZ = 00000036 LST\$K_TITE_SIZ = 00000028 MAC\$AL_WINHSHIB 0000000 RG 06 MAC\$AL_UNYHSHIB 0000000 RG 05 MAC\$AL_USYHSHIB 00000015 RG 03 MAC\$AL_LIMODTB 0000015 RG 03 MAC\$CRF_DFIIONS 0000015 RG 03 MAC\$SPL_LIST 00000233 RG 09 MAC\$SPL_ARGS 0000025 RG 09 MAC\$G_LSBNAM 000001 RG 09 MAC\$G_LSBNAM 000001 RG 09 MAC\$G_LSBNAM 000001 RG 09 MAC\$G_LSBNAM 0000001 RG 09 MAC\$G_LSBNAM 00000000 RG 0000000 RG 09 MAC\$G_LSBNAM 00000000 RG 0000000 RG 000000 RG 000000 RG 00	

MAC\$SYMTAB Symbol table	PERMANENT SYMBOL TABLE	F 13	16-SEP-1984 01:54:17 5-SEP-1984 01:49:57	VAX/VMS Macro V04-00 [MACRO.SRC]SYMTAB.MAR;1	Page 33 (23
PSC\$B_SEG PSC\$B_UNUSED PSC\$G_OPTIONS PSC\$K_BLK\$IZ PSC\$K_NO_OPTNS = 000000000 PSC\$L_CURLOC PSC\$L_LINK PSC\$M_ALIGNFLG = 00004000 PSC\$M_ALIGNFLG = 00004000 PSC\$M_CON = FFFFFFFF PSC\$M_DEFAULT = 00000000 PSC\$M_CON = FFFFFFF PSC\$M_EXE = 000000000 PSC\$M_CON = FFFFFFF PSC\$M_LIB = 000000000 PSC\$M_LCL = FFFFFFF PSC\$M_NOEXE = FFFFFF PSC\$M_NOEXE = FFFFFF PSC\$M_NOEXE = FFFFFF PSC\$M_NOBAR = FFFFFF PSC\$M_NOBAR = FFFFFF PSC\$M_NOWRT = FFFFFF PSC\$M_NOWRT = FFFFFF PSC\$M_NOWRT = FFFFFF PSC\$M_NOWRT = FFFFFF PSC\$M_OVR = 00000000 PSC\$M_PAGE = 000000000 PSC\$M_PAGE = 0000000000 PSC\$M_PAGE = 00000000000 PSC\$M_PAGE = 00000000000000000000000000000000000	RDX\$V_DECIMAL RDX\$V_FLOAT RDX\$V_FLOAT RDX\$V_HEX RDX\$V_HE	= 00000005 = 000000005 = 000000005 = 000000007 = 0000000007 = 000000000000000000000000000000000000	\$\$223 \$\$224 \$\$\$225 \$\$\$227 \$\$\$227 \$\$\$227 \$\$\$227 \$\$\$227 \$\$\$227 \$\$\$227 \$\$\$337 \$\$337 \$\$337 \$\$	= 0000259F R 03 = 0000223F1 R 03 = 0000223F1 R 03 = 0000224E R 03 = 0000224E R 03 = 0000236F R 03 = 0000236F R 03 = 0000236F R 03 = 0000246B R 03 = 0000246P R 03 = 0000250D R 03 = 00002553 R 03 = 00002554 R 03 = 000025564 R 03 = 000025564 R 03 = 00002564 R 03	

E

MMMMMMMMMMCLL

### ACCOUNTS OF THE PRINCE SYMBOL TABLE ### ACCOUNTS OF THE PRINCE SYMBOL TAB			
SS90		PERMANENT SYMBOL TABLE	16-SEP-1984 01:54:17 VAX/VMS Macro V04-00 Page 34 5-SEP-1984 01:49:57 [MACRO.SRC]SYMTAB.MAR;1 (23)
	S\$98	03	

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes			
. ABS	00000000 (0.) 00000000 (0.) 00000013 (19.) 000029C2 (10690.) 00000200 (512.) 00000200 (512.) 00000200 (512.) 000003A (58.) 00000154 (340.) 00000266 (614.)	00 (0.) 01 (1.) 02 (2.) 03 (3.) 04 (4.) 05 (5.) 06 (6.) 07 (7.) 08 (8.) 09 (9.)	NOPIC USR CON	REL LCL NO REL GBL NO REL GBL NO REL LCL NO	SHR NOEXE NORD SHR EXE RD SHR NOEXE RD	NOWRT NOVEC BYTE WRT NOVEC BYTE WRT NOVEC BYTE NOWRT NOVEC LONG NOWRT NOVEC LONG WRT NOVEC LONG WRT NOVEC LONG WRT NOVEC LONG NOWRT NOVEC LONG NOWRT NOVEC LONG WRT NOVEC LONG

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	107	00:00:00.02	00:00:00.61
Command processing Pass 1	103 1074	00:00:43.56	00:02:57.01
Symbol table sort Pass 2	266	00:00:00.58	00:00:02.36
Symbol table output Psect synopsis output	64	00:00:00.35	00:00:01.70
Cross-reference output Assembler run totals	1543	00:00:00.00 00:00:54.68	00:00:00.00

The working set limit was 2550 pages.
456772 bytes (893 pages) of virtual memory were used to buffer the intermediate code.
There were 40 pages of symbol table space allocated to hold 784 non-local and 0 local symbols.
1092 source lines were read in Pass 1, producing 103 object records in Pass 2.
14 pages of virtual memory were used to define 9 macros.

! Macro library statistics !

Macro Library name Macros defined

\$255\$DUA28:[MACRO.OBJ]MACRO.MLB:1

\$255\$DUA28:[SYSLIB]STARLET.MLB:2

TOTALS (all libraries)

Macros defined

518 GETS were required to define 9 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SYMTAB/OBJ=OBJ\$:SYMTAB MSRC\$:SYMTAB/UPDATE=(ENH\$:SYMTAB)+LIB\$:MACRO/LIB

0227 AH-BT13A-SE

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